

# INVESTIGATING THE EFFECTS OF DETECTOR-AVERAGED SRFS

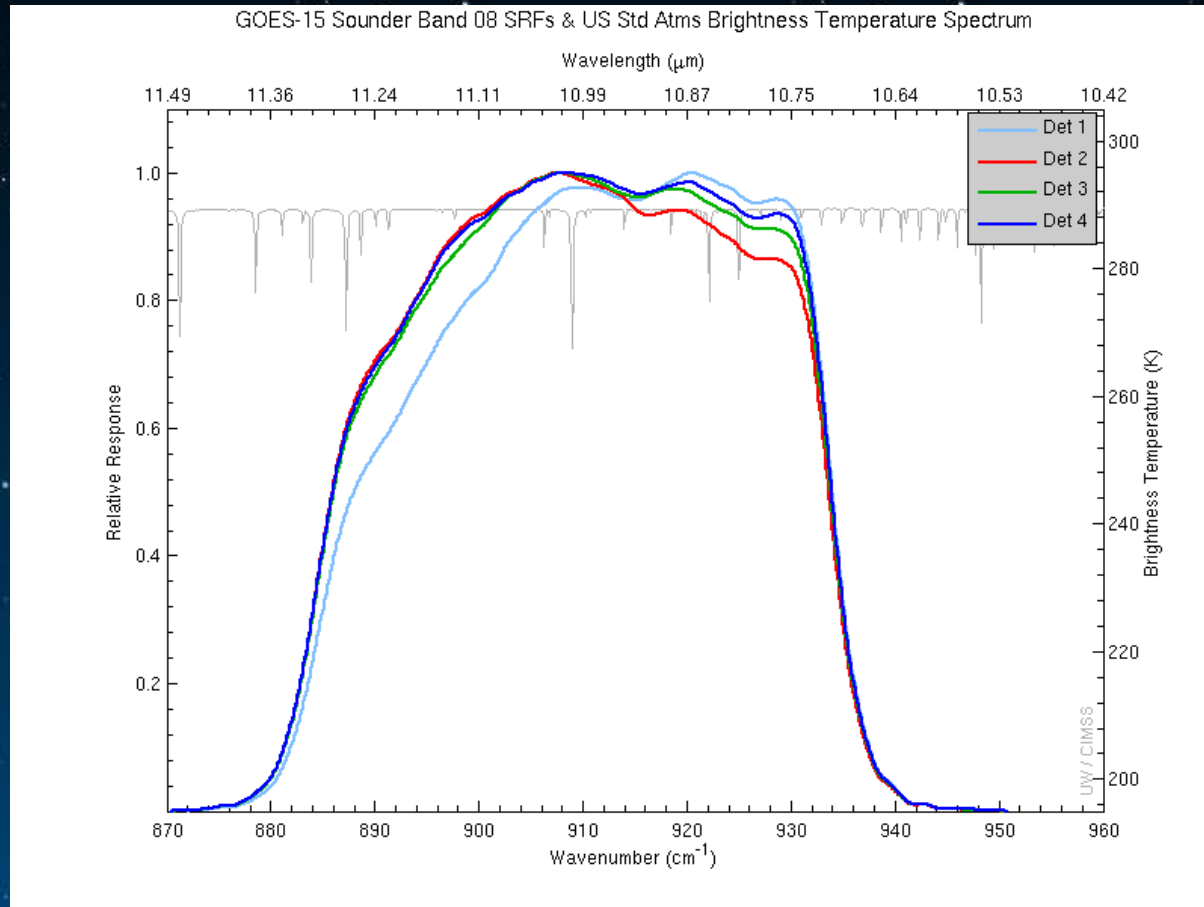
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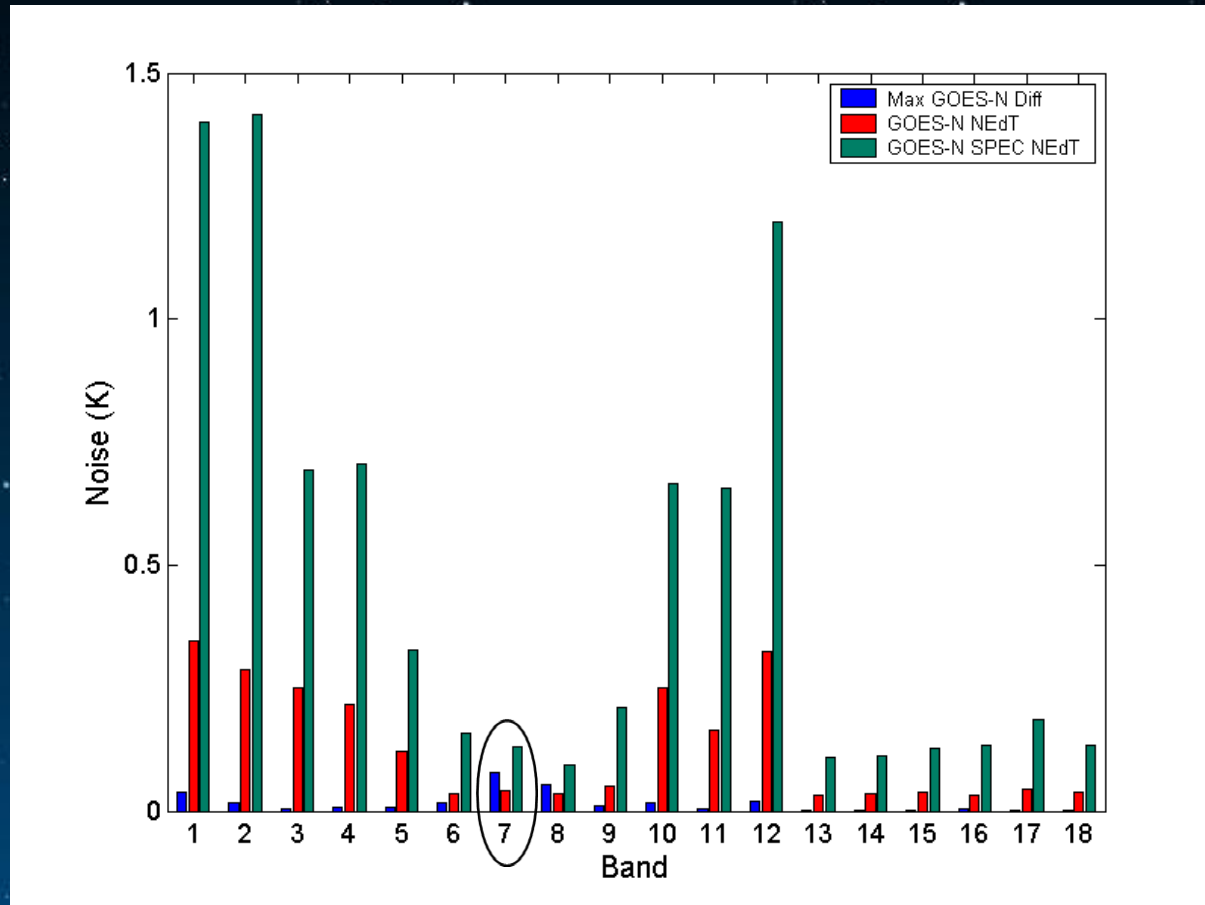
# Project Description

- ABI will have hundreds(?) of detectors that are averaged into one SRF
- Goal: Determine effects of using detector-averaged SRFs on today's GOES imagery and products.
  - Current Sounder has 4 detectors per band
  - Use RTM and convolution with multiple atmosphere types.

# Example of SRF detector variability, current GOES-15 Sounder



# Detector Level Differences Compared to Noise (GOES-13, prelaunch data)



Note for bands 7 and 8 the max detector-to-detector difference is greater than the noise.